PUBLIC WORKS/HYDROLOGY

L18/D46

DRAINAGE CALCULATIONS

I. REFERENCES:
A. CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL (DPM) VOL. 2 DESIGN CRITERIA, CHAPTER 22: DRAINAGE, FLOOD CONTROL, AND EROSION CONTROL.
B. SOIL SURVEY OF BERNALILLO COUNTY AND PARTS OF SANDOVAL AND VALENICA COUNTIES, NEW MEXICO, UNITED STATES DEPT. OF AGRICULTURAL, SOIL CONSERVATION SERVICE.
C. FLOODWAY, (F, FLOOD BOUNDARY AND FLOODWAY MAP, CITY OF ALBUQUERQUE, NEW MEXICO, PANEL 36 OF 50.
D. ZONE ATLAS PAGE L-18-Z.

II. GENERAL INFORMATION:
A. SOIL TYPE (REF. B, PAGE 31) SOIL TYPE IS WINK-EMBUDO COMPLEX (WeB), HYDROLOGIC SOIL GROUP "B".
B. IMPERVIOUSNESS:

	EXISTING		PROPOSED	
TYPE OF SURFACE	SQ. FT.	ACRES	SQ. FT.	ACRES
BUILDING ROOF	-0-	-0-	2770	0.0636
CONCRETE SURFACES	-0-	-0-	1802	0.0414
ASPHALT SURFACES	-0-	-0-	18375	0.4218
LANDSCAPING	-0-	-0-	3378	0.0775
UNDEVELOPED	39465	0.9060	13140	0.3017
SITE TOTAL	39465	0.9060	39465	0.9060

C. "C" FACTOR
EXISTING IMPERVIOUS SURFACES

	"C" FACTOR	AREA	C X A
BUILDING ROOF	0.90	-0-	-0-
CONCRETE SURFACES	0.95	-0-	-0-
ASPHALT SURFACES	0.95	-0-	-0-
LANDSCAPING	0.25	-0-	-0-
UNDEVELOPED	0.40	0.9060	0.3624
SITE TOTAL		0.9060	0.3624

EXISTING WEIGHTED "C" FACTOR 0.3624/0.9060 = 0.40

PROPOSED IMPERVIOUS SURFACES

	"C" FACTOR	AREA	C X A
BUILDING ROOF	0.90	0.0636	0.0572
CONCRETE SURFACES	0.95	0.0414	0.0393
ASPHALT SURFACES	0.95	0.4218	0.4007
LANDSCAPING	0.25	0.0775	0.0194
UNDEVELOPED	0.40	0.3017	0.1207
SITE TOTAL		0.9060	0.6373

PROPOSED WEIGHTED "C" FACTOR 0.6373/0.9060 = 0.70

D. 100 YEAR RAINFALL, 6 HOUR, P(6): (SOIL CONSERVATION HAND BOOK): P(6) = 2.20 INCHES, (INTERPOLATION VALYE)
E. TIME OF CONCENTRATION, TC: TC = 10 MINUTES (USE 10 MINUTES (MINIMUM VALUE) FOR CALCULATIONS).
F. RAINFALL INTENSITY, I: (SEE REF. A, PLATE 22.2 D-2)
I = P(6) X 6.84 X TC EXP. (-0.51)
= 2.20 X 6.84 X 10 EXP. (-0.51)
= 4.65 INCHES

III. PEAK DISCHARGE: (RATIONAL METHOD)
A. EXISTING CONDITION:
Q(100) = 0.40 X 4.65 X 0.9060 = 1.69 CFS
Q(10) = 0.657 X 1.69 = 1.11 CFS (REF A, PLATE 22.2 D-1)
B. PROPOSED CONDITION:
Q(100) = 0.70 X 4.65 X 0.9060 = 4.21 CFS
Q(10) = 0.657 X 2.95 = 1.94 CFS (REF A, PLATE 22.2 D-1)

IV. VOLUME CALCULATION: (DEVELOPED PORTION ONLY)
V = "C" X AREA X R(6)
= 0.70 X 0.6043 X 2.20 X 43560/12
= 3378 CU. FT.

VI. CONSTRUCTION NOTES:
A. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 785-1234 FOR LOCATION OF EXISTING UTILITIES.
B. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
C. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
D. ALL CONSTRUCTION WITHIN THE CITY RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.

SYMBOL LEGEND:

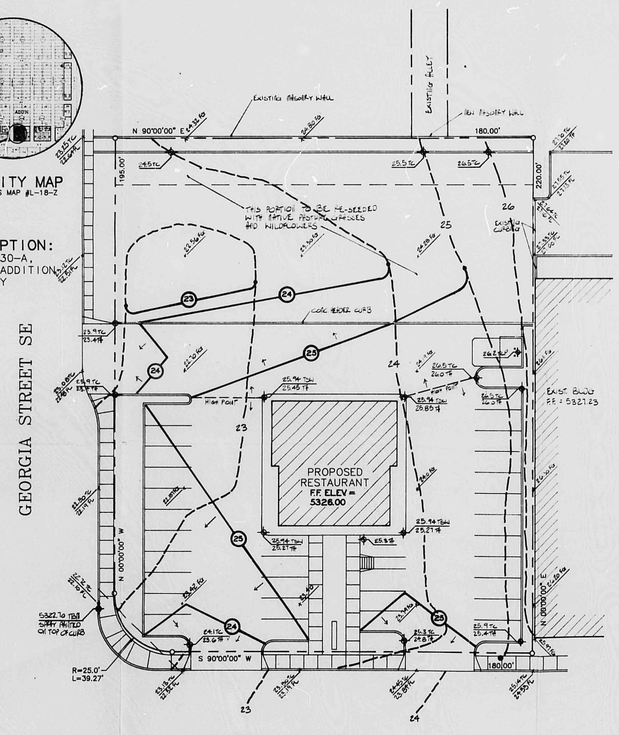
EXISTING CONTOUR LINE
DESIGN CONTOUR LINE
EXISTING SPOT ELEVATION
DESIGN SPOT ELEVATION
TEMPORARY BENCHMARK

ABBREVIATION LEGEND:

TC	TOP OF CURB
TA	TOP OF ASPHALT
TCP	TOP OF CONCRETE PAVING
FL	FLOWLINE
FG	FINISH GRADE

VICINITY MAP
ZONE ATLAS MAP #L-18-Z
NO SCALE

LEGAL DESCRIPTION:
PARCEL A, BLOCK 30-A,
ELDER HOMESTEAD ADDITION,
BERNALILLO COUNTY



GRADING & DRAINAGE PLAN

SCALE: 1"=20.0'

0 5' 10' 20' 40'

RECEIVED
JUL 1 3 1989
HYDROLOGY SECTION

BLAKE'S LOTABURRER RESTAURANT
PREPARED FOR G. BLAKE GRANGER
6301 GIBSON BOULEVARD SE, ALBUQUERQUE, NEW MEXICO

ARCHITECTURE BY
THE KEN HOVEY DESIGN GROUP INC
(505) 255-9400 1333 JEFFERSON STREET, SUITE B, ALBUQUERQUE, N.M. 87108

JOB NO: 0916
DATE: 13 JULY 1989
REVISIONS

SHEET
C2

R# 25 DATE 3-27-92 OP EJP

CITY OF ALBUQUERQUE

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Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
07/01/92

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
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PLANS/PLATS ON FILE

FILE DESC: L18/D46

PLANS/PLATS 2

E 30 D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D F

DRAINAGE CALCULATIONS

I. REFERENCES:
- A. CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL (DPM) VOL. 2 DESIGN CRITERIA, CHAPTER 22: DRAINAGE, FLOOD CONTROL, AND EROSION CONTROL.
- B. SOIL SURVEY OF BERNALILLO COUNTY AND PARTS OF SANDOVAL AND VALENICA COUNTIES, NEW MEXICO, UNITED STATES DEPT. OF AGRICULTURAL, SOIL CONSERVATION SERVICE.
- C. FLOODWAY, FLOOD BOUNDARY AND FLOODWAY MAP, CITY OF ALBUQUERQUE, NEW MEXICO, PANEL 36 OF 50.
- D. ZONE ATLAS PAGE L-18-Z.

II. GENERAL INFORMATION:
- A. SOIL TYPE (REF. B, PAGE 31) SOIL TYPE IS WINK-EMBUDO COMPLEX (WeB), HYDROLOGIC SOIL GROUP "B".
- B. IMPERVIOUSNESS:

TYPE OF SURFACE	EXISTING SQ. FT.	EXISTING ACRES	PROPOSED SQ. FT.	PROPOSED ACRES
BUILDING ROOF	-0-	-0-	2770	0.0636
CONCRETE SURFACES	-0-	-0-	1802	0.0414
ASPHALT SURFACES	-0-	-0-	18375	0.4218
LANDSCAPING	-0-	-0-	3378	0.0775
UNDEVELOPED	39465	0.9060	13140	0.3017
SITE TOTAL	39465	0.9060	39465	0.9060

- C. "C" FACTOR

EXISTING IMPERVIOUS SURFACES

	"C" FACTOR	AREA	C X A
BUILDING ROOF	0.90	-0-	-0-
CONCRETE SURFACES	0.95	-0-	-0-
ASPHALT SURFACES	0.95	-0-	-0-
LANDSCAPING	0.25	-0-	-0-
UNDEVELOPED	0.40	0.9060	0.3624
SITE TOTAL		0.9060	0.3624

EXISTING WEIGHTED "C" FACTOR 0.3624/0.9060 = 0.40

PROPOSED IMPERVIOUS SURFACES

	"C" FACTOR	AREA	C X A
BUILDING ROOF	0.90	0.0636	0.0572
CONCRETE SURFACES	0.95	0.0414	0.0393
ASPHALT SURFACES	0.95	0.4218	0.4007
LANDSCAPING	0.25	0.0775	0.0194
UNDEVELOPED	0.40	0.3017	0.1207
SITE TOTAL		0.9060	0.6373

PROPOSED WEIGHTED "C" FACTOR 0.6373/0.9060 = 0.70

- D. 100 YEAR RAINFALL, 6 HOUR, P(6): (SOIL CONSERVATION HAND BOOK); P(6) = 2.20 INCHES, (INTERPOLATION VALVE)
- E. TIME OF CONCENTRATION, TC; TC = 10 MINUTES (USE 10 MINUTES (MINIMUM VALUE) FOR CALCULATIONS).
- F. RAINFALL INTENSITY, I; (SEE REF. A, PLATE 22.2 D-2)
  - I = P(6) X 6.84 X TC EXP. (-0.51)
  - = 2.20 X 6.84 X 10 EXP. (-0.51)
  - = 4.65 INCHES

III. PEAK DISCHARGE: (RATIONAL METHOD)
- A. EXISTING CONDITION:
  - Q(100) = 0.40 X 4.65 X 0.9060 = 1.69 CFS
  - Q(10) = 0.657 X 1.69 = 1.11 CFS (REF A, PLATE 22.2 D-1)
- B. PROPOSED CONDITION:
  - Q(100) = 0.70 X 4.65 X 0.9060 = 4.21 CFS
  - Q(10) = 0.657 X 2.95 = 1.94 CFS (REF A, PLATE 22.2 D-1)

IV. VOLUME CALCULATION: (DEVELOPED PORTION ONLY)
- V = "C" X AREA X R(6)
- = 0.70 X 0.6043 X 2.20 X 43560/12
- = 3378 CU. FT.

VI. CONSTRUCTION NOTES:
- A. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 765-1234 FOR LOCATION OF EXISTING UTILITIES.
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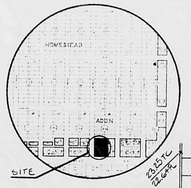
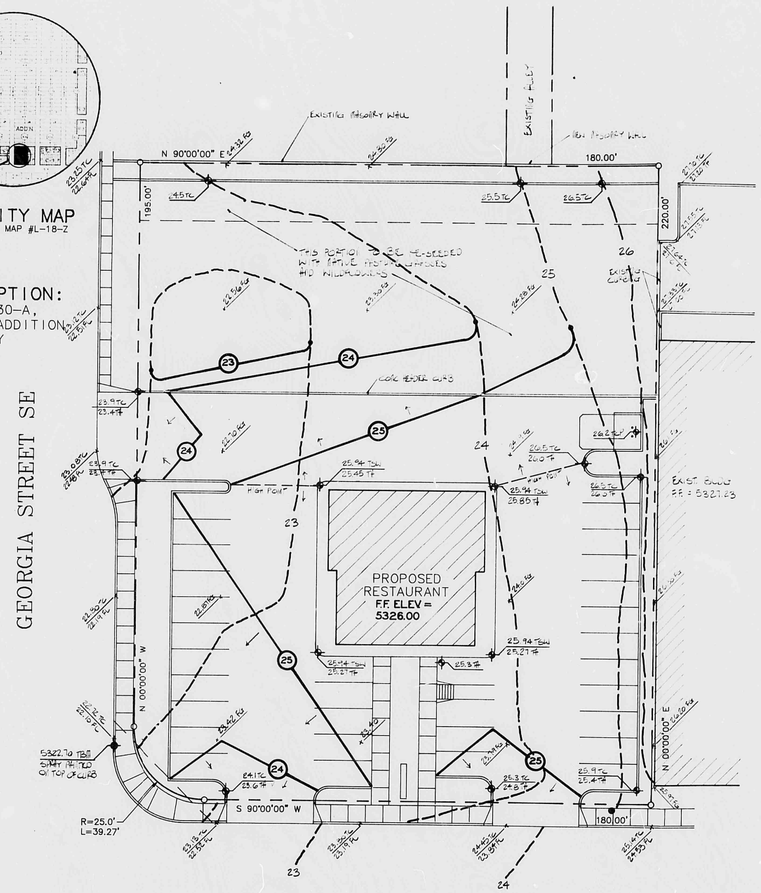


VICINITY MAP
ZONE ATLAS MAP #L-18-Z
NO SCALE

LEGAL DESCRIPTION:
PARCEL A, BLOCK 30-A,
ELDER HOMESTEAD ADDITION,
BERNALILLO COUNTY



SYMBOL LEGEND:

- EXISTING CONTOUR LINE
- DESIGN CONTOUR LINE
- EXISTING SPOT ELEVATION
- DESIGN SPOT ELEVATION
- TEMPORARY BENCHMARK

ABBREVIATION LEGEND:

TC	TOP OF CURB
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GRADING & DRAINAGE PLAN

SCALE: 1"=20.0'

0 5' 10' 20' 40'

RECEIVED JUL 13 1989 HYDROLOGY SECTION

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(505) 255-9400 • 335 JEFFERSON STREET, SUITE B, ALBUQUERQUE, N.M. 87108

R. B. LEE 1972 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 7/13/89

JOB NO:	8916
DATE:	13 JULY 1989
REVISIONS	

SHEET C2

PLAN SHOT TWICE
ONCE ON LIGHT
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D 24 C 20 B 16 A 12 | CITY OF ALBUQUERQUE C D

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- A. SOIL TYPE (REF. B, PAGE 31) SOIL TYPE IS WINK-EMBUDO COMPLEX (WeB), HYDROLOGIC SOIL GROUP "B".
- B. IMPERVIOUSNESS:

TYPE OF SURFACE	EXISTING SQ. FT.	EXISTING ACRES	PROPOSED SQ. FT.	PROPOSED ACRES
BUILDING ROOF	-0-	-0-	2770	0.0636
CONCRETE SURFACES	-0-	-0-	1852	0.0425
ASPHALT SURFACES	-0-	-0-	21937	0.5036
LANDSCAPING	-0-	-0-	3546	0.0814
UNDEVELOPED	39465	0.9060	9360	0.2149
SITE TOTAL	39465	0.9060	39465	0.9060

- C. "C" FACTOR

EXISTING IMPERVIOUS SURFACES

	"C" FACTOR	AREA	C X A
BUILDING ROOF	0.90	-0-	-0-
CONCRETE SURFACES	0.95	-0-	-0-
ASPHALT SURFACES	0.95	-0-	-0-
LANDSCAPING	0.25	-0-	-0-
UNDEVELOPED	0.40	0.9060	0.3624
SITE TOTAL		0.9060	0.3624

EXISTING WEIGHTED "C" FACTOR 0.3624/0.9060 = 0.40

PROPOSED IMPERVIOUS SURFACES

	"C" FACTOR	AREA	C X A
BUILDING ROOF	0.90	0.0636	0.0572
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ASPHALT SURFACES	0.95	0.5036	0.4784
LANDSCAPING	0.25	0.0814	0.0204
UNDEVELOPED	0.40	0.2149	0.0860
SITE TOTAL		0.9060	0.6824

PROPOSED WEIGHTED "C" FACTOR 0.6824/0.9060 = 0.75

- D. 100 YEAR RAINFALL, 6 HOUR, P(6): (SOIL CONSERVATION HAND BOOK); P(6) = 2.20 INCHES, (INTERPOLATION VALVE)
- E. TIME OF CONCENTRATION, TC: TC = 10 MINUTES (USE 10 MINUTES (MINIMUM VALUE) FOR CALCULATIONS).
- F. RAINFALL INTENSITY, I; (SEE REF. A, PLATE 22.2 D-2)
  - I = P(6) X 6.84 X TC EXP. (-0.51)
  - = 2.20 X 6.84 X 10 EXP. (-0.51)
  - = 4.65 INCHES

III. PEAK DISCHARGE: (RATIONAL METHOD)
- A. EXISTING CONDITION
  - Q(100) = 0.40 X 4.65 X 0.9060 = 1.69 CFS
  - Q(10) = 0.657 X 1.69 = 1.11 CFS (REF A, PLATE 22.2D-1)
- B. PROPOSED CONDITION:
  - Q(100) = 0.75 X 4.65 X 0.9060 = 3.16 CFS
  - Q(10) = 0.657 X 3.16 = 2.08 CFS (REF A, PLATE 22.2D-1)

IV. VOLUME CALCULATION: (DEVELOPED PORTION ONLY)
- V = "C" X AREA X R(6)
- = 0.75 X 0.6911 X 2.20 X 43560/12
- = 4139 CU. FT.

VI. CONSTRUCTION NOTES:
- A. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 765-1234 FOR LOCATION OF EXISTING UTILITIES.
- B. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
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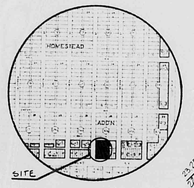

VICINITY MAP
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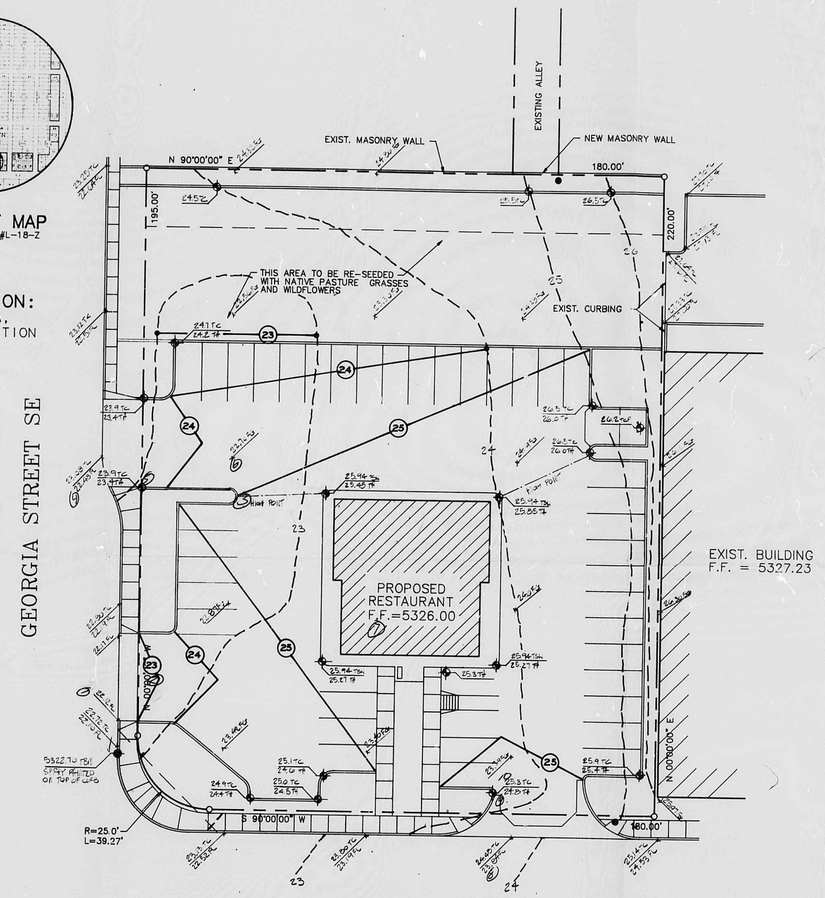

GRADING & DRAINAGE PLAN

SCALE: 1"=20.0'

0 5' 10' 20' 40'

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Roberta Duran
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STATE OF NEW MEXICO
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D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D

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LANDSCAPING	-0-	-0-	3546	0.0814
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C. "C" FACTOR
EXISTING IMPERVIOUS SURFACES

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D. 100 YEAR RAINFALL, 6 HOUR, P(6): (SOIL CONSERVATION HAND BOOK); P(6) = 2.20 INCHES, (INTERPOLATION VALUE)
E. TIME OF CONCENTRATION, TC; TC = 10 MINUTES (USE 10 MINUTES (MINIMUM VALUE) FOR CALCULATIONS).
F. RAINFALL INTENSITY, I; (SEE REF. A, PLATE 22.2 D-2)
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A. EXISTING CONDITION
Q(100) = 0.40 X 4.65 X 0.9060 = 1.69 CFS
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IV. VOLUME CALCULATION: (DEVELOPED PORTION ONLY)
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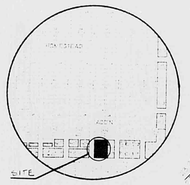
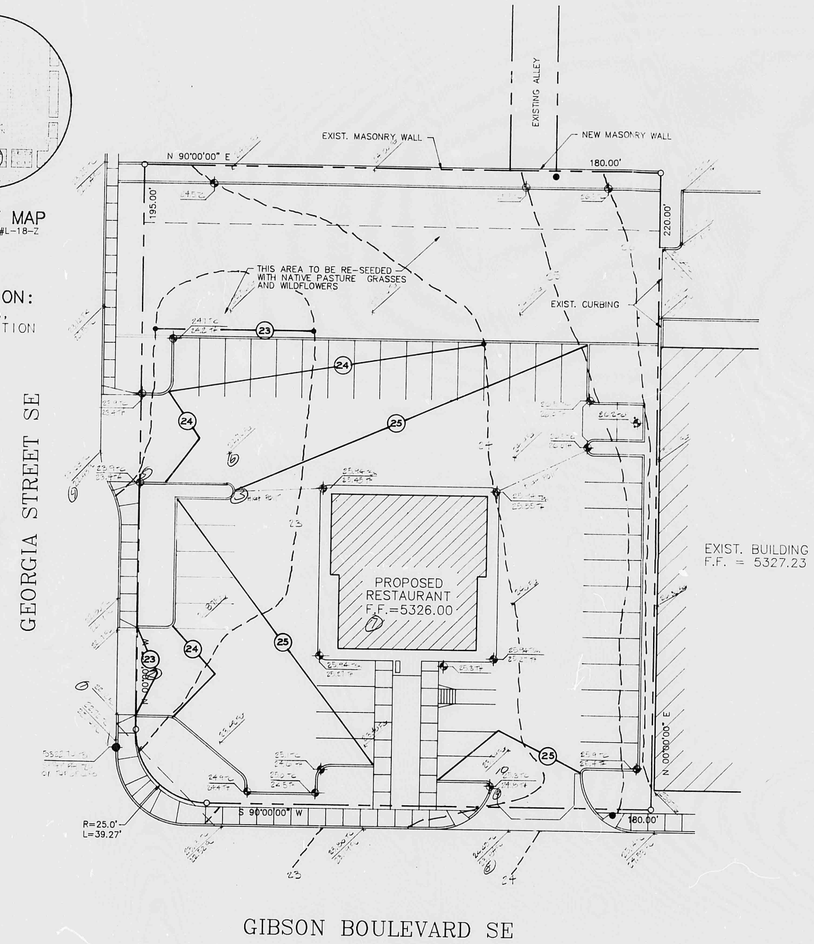
= 4139 CU. FT.

VI. CONSTRUCTION NOTES:
A. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 765-1234 FOR LOCATION OF EXISTING UTILITIES.
B. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
C. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
D. ALL CONSTRUCTION WITHIN THE CITY RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.



VICINITY MAP
ZONE ATLAS MAP #L-18-Z
NO SCALE

LEGAL DESCRIPTION:
PARCEL A, BLOCK 30-A,
ELDER HOMESTEAD ADDITION
BERNALILLO COUNTY



SYMBOL LEGEND:

EXISTING CONTOUR LINE
DESIGN CONTOUR LINE
EXISTING SPOT ELEVATION
DESIGN SPOT ELEVATION
TEMPORARY BENCHMARK

ABBREVIATION LEGEND:

TC	TOP OF CURB
TA	TOP OF ASPHALT
TCP	TOP OF CONCRETE PAVING
FL	FLOWLINE
FG	FINISH GRADE

GRADING & DRAINAGE PLAN

SCALE: 1"=20.0'

0 5' 10' 20' 40'

BLAKE'S LOTABURGER RESTAURANT
PREPARED FOR G. BLAKE CHANSLOR
6301 GIBSON BOULEVARD SE, ALBUQUERQUE, NEW MEXICO

ARCHITECTURE BY
THE KEN HOVEY DESIGN GROUP INC
(505) 255-9400 • 335 JEFFERSON STREET, SUITE B, ALBUQUERQUE, N.M. 87108

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT.

R.E. LEE JR. NEW MEXICO 1972 REGISTERED PROFESSIONAL ENGINEER
7/13/89

JOB NO: 0916
DATE: 13 JULY 1989
REVISIONS
1 8 AUGUST 1989

SHEET
C2

R# 28 DATE 3-27-02 OP. EGP

CITY OF ALBUQUERQUE
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Chas. T. Hallett 1/15/02
DIRECTOR

Roberta Duran
NOTARY PUBLIC
OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
07/02/02

D24 C20 B16 A12 CITY OF ALBUQERQUE C D